

Non-Fusible Disconnects

SIRCO Series Selection Guides

SIRCO Series Front-operated Non-Fusible Disconnects					
Switch Body Part Number	Price	Weight lb(kg)	Ampere Rating	Hp @ Voltage	Interrupt Capacity (kA)*
SCV30	<--->	3.9(1.79)	30	15 Hp @ 480V	50
SCV60	<--->	4.0(1.80)	60	30 Hp @ 480V	200
SCV100	<--->	5.5(2.50)	100	60 Hp @ 480V	200
SCV200	<--->	7.6(3.40)	200	125 Hp @ 480V	200
SCV400	<--->	17.2(7.80)	400	250 Hp @ 480V	200
SC600	<--->	18.7(8.50)	600	400 Hp @ 480V	200
SC800	<--->	19.6(8.90)	800	500 Hp @ 480V	100

* When fused separately

Ferraz Non-Fusible Disconnects Component Selection Guide				
Part Number	Price	Weight lb(kg)	Description	Use with
SD200-5	<--->	0.2(0.09)	Operator shaft, type D, 7.9" (200 mm) length, 5x5 mm thick (purchase handle separately)	SCV30
SD320-5	<--->	0.3(0.14)	Operator shaft, type D, 12.6" (320 mm) length, 5x5 mm thick (purchase handle separately)	SCV30
SG120-5	<--->	0.15(0.07)	Operator shaft, type G, 4.7" (120 mm) length, 5x5 mm thick (purchase handle separately)	SCV30
SG200-10	<--->	0.3(0.14)	Operator shaft, type G, 7.9" (200 mm) length, 10x10 mm thick (purchase handle separately)	SCV60 thru SCV400
SG200-5	<--->	0.2(0.09)	Operator shaft, type G, 7.9" (200 mm) length, 5x5 mm thick (purchase handle separately)	SCV30
SG320-10	<--->	0.5(0.23)	Operator shaft, type G, 12.6" (320 mm) length, 10x10 mm thick (purchase handle separately)	SCV60 thru SCV400
SG320-5	<--->	0.2(0.09)	Operator shaft, type G, 12.6" (320 mm) length, 5x5 mm thick (purchase handle separately)	SCV30
SG400-10	<--->	0.7(0.32)	Operator shaft, type G, 15.7" (400 mm) length, 10x10 mm thick (purchase handle separately)	SCV60 thru SCV400
SH400-15	<--->	2.1(0.95)	Operator shaft, type H, 17.7" (450 mm) length, 15x15 mm thick (purchase handle separately)	SC600, SC800
HADB1	<--->	0.1(0.05)	Direct operation handle	SCV30
HADB6	<--->	0.4(0.18)	Direct operation, optional handle, 12.415" (315.314 mm) long padlocking on the switch, NFPA 79 compliant	SCV30
HADB8	<--->	0.4(0.18)	Direct operation, optional handle, 12.415" (315.314 mm) long padlocking on the switch, NFPA 79 compliant	SCV60 thru SCV400
HDPB	<--->	0.2(0.09)	Black Pistol handle, NEMA 12, 2.48" (63 mm) long, Type D, defeatable and lockable	SCV30
HDPR	<--->	0.2(0.09)	Red and yellow Pistol handle, NEMA 12, 2.48" (63 mm) long, Type D, defeatable and lockable	SCV30
HGPB	<--->	0.5(0.23)	Black Pistol handle, NEMA 12, 2.78" (70.6 mm) long, Type G, defeatable and lockable	SCV30
HGPB4	<--->	0.6(0.27)	Black Pistol handle, NEMA 4X, 2.78" (70.6 mm) long, Type G, defeatable and lockable	SCV30
HGPB4L	<--->	0.7(0.32)	Black long Pistol handle, NEMA 4X, 4.98" (126.49 mm) long, Type G long, defeatable and lockable	SCV60 thru SCV400
HGPBL	<--->	0.6(0.27)	Black long Pistol handle, NEMA 12, 4.98" (126.49 mm) long, Type G long, defeatable and lockable	SCV60 thru SCV400
HGPR	<--->	0.6(0.27)	Red and yellow Pistol handle, NEMA 12, 2.78" (70.6 mm) long, Type G, defeatable and lockable	SCV30
HGPR4	<--->	0.6(0.27)	Red and yellow Pistol handle, NEMA 4X, 2.78" (70.6 mm) long, Type G, defeatable and lockable	SCV30
HGPR4L	<--->	0.6(0.27)	Red and yellow long Pistol handle, NEMA 4X, 4.98" (126.49 mm) long, Type G long, defeatable and lockable	SCV60 thru SCV400
HGPRL	<--->	0.6(0.27)	Red and yellow long Pistol handle, NEMA 12, 4.98" (126.49 mm) long, Type G long, defeatable and lockable	SCV60 thru SCV400
HHPB4SC	<--->	1.3(0.59)	Black Pistol handle, NEMA 4X, 7.48" (190 mm) long, Type H, defeatable and lockable	SC600, SC800

Ferraz Non-Fusible Disconnects Accessories Selection Guide				
Part Number	Price	Weight lb(kg)	Description	Use with
ACHCD	<--->	0.2(0.09)	Auxiliary contact holder (accommodates up to 4 auxiliary contacts)	SCV30
ACH	<--->	0.2(0.09)	Auxiliary contact holder (accommodates up to 8 auxiliary contacts)	SCV60 thru SCV400
ACHSC	<--->	0.1(0.05)	Auxiliary contact holder (accommodates up to 4 auxiliary contacts)	SC600, SC800
AC3	<--->	0.1(0.05)	Auxiliary contact for SIRCO non-fused disconnect switches. One N.O. contact. 10 Amp, 600 VAC	All SIRCO switches
AC4	<--->	0.1(0.05)	Auxiliary contact for SIRCO non-fused disconnect switches. One N.C. contact. 10 Amp, 600 VAC	All SIRCO switches
TL200	<--->	0.4(0.18)	Terminal lug kit, Aluminum, tin-plated, 3/0 to #6, 6 lugs per kit	SCV200
TL400	<--->	5.0(2.27)	Terminal lug kit, Aluminum, tin-plated, 600Mcm to #2, 6 lugs per kit	SCV400
TL600	<--->	5.0(2.27)	Terminal lug kit, Aluminum, tin-plated, (2) 600Mcm to #2, 6 lugs per kit	SC600
TL800	<--->	10.0(4.5)	Terminal lug kit, Aluminum, tin-plated, (3) 600Mcm to #2, 6 lugs per kit	SC800
TS200SC*	<--->	0.7(0.32)	Terminal shroud kit - 3 pole, Use with 200 amp non-fusible switch. For line or load side.	SCV200
TS1200SC*	<--->	0.7(0.32)	Terminal screen kit - 3 pole, Use with 800 amp non-fusible switch. For line or load side.	SC800

Ferraz Shawmut Non-Fusible Disconnects SIRCO Series - Build a Complete Switch

30 Amp

STEP 1

Choose a switch body



Switch body

Switch Body	Ampere Rating	Hp @ Voltage	Interrupt Capacity (kA)
SCV30*	30	15 Hp @ 480V	50

*Note: Lugs, shrouds, and screens are integrated into this switch

STEP 2

Choose a handle



Short handles

Short Handle	
HDPB	Pistol, Black, NEMA 1, 3R, 12, Type D
HDPR	Pistol, Red/yellow, NEMA 1, 3R, 12, Type D



Standard handles

Standard Handle	
HGPB	Pistol, Black, NEMA 1, 3R, 12, Type G.
HGPB4	Pistol, Black, NEMA 4, 4X, Type G.
HGPR	Pistol, Red /yellow, NEMA 1, 3R, 12, Type G
HGPR4	Pistol, Red /yellow, NEMA 4, 4X, Type G

Direct handles



Direct Mount Handle	
HADB1	Direct mount, Black. No shaft required.

NFPA 79 compliant handle



NFPA 79 Compliant Handle	
HADB6	NFPA 79-compliant, allows operation and padlocking the switch when door is open. Red. No shaft required.

STEP 3

Choose a shaft



Short handle shafts

Shaft for Short Handle	
SD200-5	Type D, 7.9" (200 mm) long
SD320-5	Type D, 12.6" (320 mm) long



Standard handle shafts

Shaft for Standard Handle	
SG120-5	Type G, 4.7" (120 mm) long
SG200-5	Type G, 7.9" (200 mm) long
SG320-5	Type G, 12.6" (320 mm) long

Shaft not used with Direct Handle

Select a standard handle.

Note: Short handle cannot be used with NFPA79-compliant handle.

STEP 4

Choose your Accessories

Accessories	Description	Use With
ACHCD	Auxiliary contact holder (accommodates up to 4 auxiliary contacts). REQUIRED when using AC3 or AC4.	SCV30
AC3	Auxiliary contact. One N.O. contact. 10 Amp. 600 VAC REQUIRES ACHCD . Please purchase separately.	SCV30
AC4	Auxiliary contact. One N.C. contact. 10 Amp. 600 VAC REQUIRES ACHCD . Please purchase separately.	SCV30



Non-Fusible Disconnects

SIRCO Series - Build a Complete Switch

60 Amp to 400 Amp

STEP 1

Choose a switch body



Switch body

Switch Body	Ampere Rating	Hp @ Voltage	Interrupt Capacity (kA)
SCV60*	60	30 Hp @ 480V	200
SCV100*	100	60 Hp @ 480V	200
SCV200**	200	125 Hp @ 480V	200
SCV400***	400	200 Hp @ 480V	200

*Note: Lugs, shrouds, and screens are integrated into this switch.

**Note: Line side screen included with this switch. Use TL200 lugs and TS200SC screen, sold separately, for load side.

***Note: Screens and shrouds are integrated into this switch. Use TL400 lugs, sold separately.

STEP 2

Choose a handle



Standard handles

Standard Handle	
HGPBL	Pistol, Long Black, NEMA 1, 3R, 12; 4.98" long, Type G
HGPB4L	Pistol, Long Black, NEMA 4, 4X, 4.98" long, Type G
HGPRL	Pistol, Long Red/yellow NEMA 1, 3R, 12; 4.98" long, Type G
HGPR4L	Pistol, Long Red/yellow NEMA 4, 4X, 4.98" long, Type G



NFPA 79 compliant handle

NFPA 79 Compliant Handle	
HADB8	NFPA 79-compliant, allows operation and padlocking the switch when door is open. Red. No shaft required.

STEP 3

Choose a shaft



Standard handle shafts

Shaft for Standard Handle	
SG200-10	Type G, 7.9" (200 mm) long
SG320-10	Type G, 12.6" (320 mm) long
SG400-10	Type G, 15.7" (400 mm) long

Select a standard handle

STEP 4

Choose your Accessories



Accessories	Description	Use With
ACH	Auxiliary contact holder (accommodates up to 8 auxiliary contacts). REQUIRED when using AC3 or AC4.	
AC3	Auxiliary contact. One N.O. contact. 10 Amp. 600 VAC. REQUIRES ACH . Please purchase separately.	SCV60 thru SCV400
AC4	Auxiliary contact. One N.C. contact. 10 Amp. 600 VAC. REQUIRES ACH . Please purchase separately.	
TL200	Terminal lug kit, Aluminum, tin-plated, 3/0 to #6, 6 lugs per kit	SCV200
TL400	Terminal lug kit, Aluminum, tin-plated, 600Mcm to #2, 6 lugs per kit	SCV400
TS200SC	Terminal shroud kit, - 3 pole, Use with 200 amp non-fusible switch. For line or load side. 3 shrouds per kit.	SCV200

Non-Fusible Disconnects

SIRCO Series - Build a Complete Switch

600 Amp to 800 Amp

STEP 1

Choose a switch body



Switch Body

Switch Body	Ampere Rating	Hp @ Voltage	Interrupt Capacity (kA)
SC600*	600	400 Hp @ 480V	200
SC800**	800	500 Hp @ 480V	100

*Note: Line side screen included with this switch. Use TL600 lugs, sold separately.

**Note: Line side screen included with this switch. Use TL800 lugs and TS1200SC screen, sold separately, for load side.

STEP 2

Choose a handle



Long Handle

Long Handle	
HHPB4SC	Black, NEMA 4, 4X; 7.48" long, Type H.

STEP 3

Choose a shaft



Shaft for Long Handle

Shaft for Long Handle	
SH400-15	Type H, 17.7" (450 mm) long

STEP 4

Choose your Accessories



Accessories	Description	Use With
ACHSC	Auxiliary contact holder (accommodates up to 4 auxiliary contacts). REQUIRED when using AC3 or AC4.	SC600 thru SC800
AC3	Auxiliary contact. One N.O. contact. 10 Amp. 600 VAC. REQUIRES ACHSC. Please purchase separately.	SC600 thru SC800
AC4	Auxiliary contact. One N.C. contact. 10 Amp. 600 VAC. REQUIRES ACHSC. Please purchase separately.	SC600 thru SC800
TL600	Terminal lug kit, Aluminum, tin-plated, (2) 600Mcm to #2, 6 lugs per kit	SC600
TL800	Terminal lug kit, Aluminum, tin-plated, (3) 600Mcm to #2, 6 lugs per kit	SC800
TS1200SC	Terminal screen kit - 3 pole, Use with 800 amp non-fusible switch, For line or load side. 1 screen per kit.	SC800

PLC Overview

DL05/06 PLC

DL105 PLC

DL205 PLC

DL305 PLC

DL405 PLC

Field I/O

Software

C-more HMIs

Other HMI

AC Drives

Motors

Steppers/Servos

Motor Controls

Proximity Sensors

Photo Sensors

Limit Switches

Encoders

Current Sensors

Pushbuttons/Lights

Process

Relays/Timers

Comm.

TB's & Wiring

Power

Circuit Protection

Enclosures

Appendix

Part Index

Non-Fusible Disconnects SIRCO Series Specifications

SIRCO Non-Fusible Disconnects Technical Specifications According to UL 508, cUL and CSA							
Specifications							
Part Number	SCV30	SCV60	SCV100	SCV200	SCV400	SC600	SC800
Price	<--->	<--->	<--->	<--->	<--->	<--->	<--->
Rated Operational Voltage (VAC)	600	600	600	600	600	600	600
Short Circuit Rating (kA) with fuses	50	200	200	200	200	200	100
Fuse Type (if fusing separately)	J or CC	J	J	J	J	J	L
Fuse Rating (A) (if fusing separately)	30	60	100	200	400	600	800
Maximum UL Horsepower/Maximum Motor FLA Current, Three Phase							
208V	5/17.5	15/48.5	25/78.5	50/150	100/286	150/415	200/554
240V	7.5/22	15/42	30/80	60/154	125/312	200/480	250/602
480V	15/21	30/40	60/77	125/156	250/302	400/447	500/590
600V	20/22	50/52	75/77	150/144	350/336	350/336	500/472
DC 125V	3/25 ¹	3/25 ¹	7.5/58 ¹	15/112 ¹	20/148 ¹	20/148 ¹	—
DC 250V	5/20 ¹	10/38 ²	20/72 ²	40/140 ²	50/173 ²	50/173 ²	—
Switch Operating Torque lb-in	21	88	88	106	130	320	320
Wire Size Range AWG (# wire holes per lug)	#10 - #14 (1)	#3 - #10 (1)	#3 - #10 (1)	#3/0 - #6 (1)	600 kcmil-#2 (2)	600 kcmil-#2 (2)	600 kcmil-#2 (3)
Terminal Lugs Kit (# of lugs per kit)	Integral	Integral	Integral	Optional (6)	Optional (6)	Optional (6)	Optional (6)
Wire Tightening Torque lb-in	27	58	58	200	500	500	500
Net Weight lb(kg)	3.9(1.79)	4.0(1.80)	5.5(2.50)	7.6(3.40)	17.2(7.80)	18.7(8.50)	19.6(8.90)

Note: 1: 2-pole in series
2: 3-pole in series

IEC 947-3 Technical Specifications For Front Operation									
Part Number	Unit	SCV30	SCV60	SCV100	SCV200	SCV400	SC600	SC800	
Rating	A	32	63	100	200	400	600	800	
Rated Insulation Voltage U _i (V)	V	800	750	750	750	800	1000	1000	
Rated impulse Voltage (U _{imp})		8 kV	8 kV	8 kV	8 kV	8 kV	12 kV	12 kV	
Operation Current I _e (A)									
	IEC Utilization Category	Unit							
400 VAC	AC 22A	A	32	63	100	200	400	630	800
	AC 23A	A	32	63	100	200	400	630	800
690 VAC	AC 22A	A	32	63	100	200	400	500	630
	AC 23A	A	32	63	100	200	315	200	400
Motor Power (kW)									
400 VAC	AC 23A	A	15	30	51	100	220	355	450
500 VAC	AC 23A	A	18.5	40	63	140	220	450	560
690 VAC	AC 23A	A	25	55	90	185	295	185	400
Maximum Peak Let-through Current (gG)	kA peak	5.5	17.6	17.6	32	40	48	75	
Connection									
Minimum CU Cable Section	mm ²	6	10	25	50	185	2x150	2x185	
Minimum CU Busbar Section	mm ²	—	—	—	—	—	2x30x5	2x40x5	

Note: See Appendix for IEC utilization categories.